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01-03-02

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. CISCO-3829

First Inventor Roger Karam

Title SIGNAL-DISRUPTION DETECTION IN POWERED NETWORKING SYSTEMS

Express Mail Label No. EV049224145US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 23]
(preferred arrangement set forth below)
- Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C.113) [Total Sheets 11]
5. Oath or Declaration [Total Pages 4]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)
- i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☒ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____ /
Prior application information: Examiner _____ Group / Art Unit: _____

For **CONTINUATION** or **DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS☐ Customer Number or Bar Code Labelor ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

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31,562

Signature

Date

12/18/01

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**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

Complete if Known

Application Number	Unassigned
Filing Date	December 18, 2001
First Named Inventor	Roger Karam
Examiner Name	Unassigned
Group / Art Unit	Unassigned
Attorney Docket No.	CISCO-3829

TOTAL AMOUNT OF PAYMENT (\$) 1,248.00**METHOD OF PAYMENT (check one)**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit
Account
Number

040025

Deposit
Account
Name

D'ALESSANDRO & RITCHIE

- ☒
- Charge Any Additional Fee Required
-
- Under 37 CFR 1.16 and 1.17
-
- ☐
- Applicant claims small entity status.
-
- See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other
FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$) 740

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
46	26	18	468
Independent Claims	3	0	0
Multiple Dependent			0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$) 468.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$) 40

SUBMITTED BY**Complete (if applicable)**

Name (Print/Type)

David B. Ritchie

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(408) 292-5800

Signature

Date

12/18/01

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FORM PTO/SB/17 (10-01)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Roger Karam
SERIAL NO.: Unassigned
FILING DATE: December 18, 2001
TITLE: SIGNAL-DISRUPTION DETECTION IN POWERED
NETWORKING SYSTEMS
EXAMINER: Unassigned
ART UNIT: Unassigned

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as Express Mail EV049224145US in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on the date printed below:

Date: 12/18/01

Name: 
Beatrice Orozco

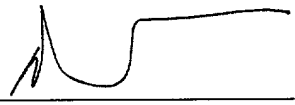
COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Deposit Account

The Commissioner is hereby authorized to charge any additional fees beyond the \$1,248.00 authorized by the papers filed herewith or credit any overpayment to Deposit Account No. 50-1698, account name Thelen Reid & Priest LLP.

Respectfully submitted,
THELEN REID & PRIEST LLP

Dated: December 18, 2001


David B. Ritchie
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Figure 1 consists of 12 bar charts, labeled (a) through (l), arranged in a 4x3 grid. Each chart displays the percentage of total protein for various protein types (A, B, C, D, E, F, G, H, I, J, K, L) across different conditions (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12). The y-axis for all charts is 'Percentage of total protein' ranging from 0 to 100. The x-axis for all charts is 'Protein type' with categories A, B, C, D, E, F, G, H, I, J, K, L. The bars are color-coded: red for A, blue for B, green for C, yellow for D, orange for E, purple for F, brown for G, pink for H, light blue for I, light green for J, light orange for K, and light pink for L. The data is as follows:

Chart	Protein Type	Condition 1	Condition 2	Condition 3	Condition 4	Condition 5	Condition 6	Condition 7	Condition 8	Condition 9	Condition 10	Condition 11	Condition 12
(a)	A	10	20	30	40	50	60	70	80	90	100	110	120
	B	10	20	30	40	50	60	70	80	90	100	110	120
	C	10	20	30	40	50	60	70	80	90	100	110	120
	D	10	20	30	40	50	60	70	80	90	100	110	120
	E	10	20	30	40	50	60	70	80	90	100	110	120
	F	10	20	30	40	50	60	70	80	90	100	110	120
	G	10	20	30	40	50	60	70	80	90	100	110	120
	H	10	20	30	40	50	60	70	80	90	100	110	120
	I	10	20	30	40	50	60	70	80	90	100	110	120
	J	10	20	30	40	50	60	70	80	90	100	110	120
	K	10	20	30	40	50	60	70	80	90	100	110	120
	L	10	20	30	40	50	60	70	80	90	100	110	120
(b)	A	10	20	30	40	50	60	70	80	90	100	110	120
	B	10	20	30	40	50	60	70	80	90	100	110	120
	C	10	20	30	40	50	60	70	80	90	100	110	120
	D	10	20	30	40	50	60	70	80	90	100	110	120
	E	10	20	30	40	50	60	70	80	90	100	110	120
	F	10	20	30	40	50	60	70	80	90	100	110	120
	G	10	20	30	40	50	60	70	80	90	100	110	120
	H	10	20	30	40	50	60	70	80	90	100	110	120
	I	10	20	30	40	50	60	70	80	90	100	110	120
	J	10	20	30	40	50	60	70	80	90	100	110	120
	K	10	20	30	40	50	60	70	80	90	100	110	120
	L	10	20	30	40	50	60	70	80	90	100	110	120
(c)	A	10	20	30	40	50	60	70	80	90	100	110	120
	B	10	20	30	40	50	60	70	80	90	100	110	120
	C	10	20	30	40	50	60	70	80	90	100	110	120
	D	10	20	30	40	50	60	70	80	90	100	110	120
	E	10	20	30	40	50	60	70	80	90	100	110	120
	F	10	20	30	40	50	60	70	80	90	100	110	120
	G	10	20	30	40	50	60	70	80	90	100	110	